

Ships Service



Mooring line base design certificate TS CERT 7807 E

General information

Issue date:

09.07.2024

Expiry date:

08.07.2029

Line manufacturer

Wilhelmsen Ships Service

Independent inspection agency:

DNV

Line design designation:

Acera Amundsen SBATM,

Material type and grade:

HMPE Acera

Line construction:

Acera Amundsen

Jacketed:

No

Design range:

12x1 - braided/plaited

16 mm - 64 mm

DNV Type Approval:

Yes

Base design performance indicators

Performance Indicators	Smallest Diameter					Largest Diameter			
Diameter	Design:	16mm	Measured:	18mm	Design:	64mm	Measured:	66mm	
Line Design Break Force (LDBF)	23,4 t				270,7 t				
Line Linear Density (LLD) with SBA	0,166 kg/m				1,951 kg/m				
Load Bearing Linear Density (LBLD)	0,144 kg/m				1,862 kg/m				
Line Tenacity (LT) without SBA	162,9 t/kg/m				145,4 t/kg/m	ľ			
	D/d Ratio: 5				D/d Ratio:1	0			
Angled Break Force* (ABF) % Avg NSBF	188,06% / 94,03%				194,89% / 9	194,89% / 97,44%			
Angled Endurance* (AE)*** % Avg NSBF	86,85%				98,5%				
	-20 °C	0 °C	20 °C	40 °C	60 °C	80 °C			
Temperature (T)** % BF at 20°C (HMPE/PA)	115,3%/115%	108,4%/105%	100%/100%	97,5%/95%	6 87,2%/90%	61,5%/82%	Ó		
Axial Compression Resistance* (ACR)***	98,95%								
	%LDBF:10	%LDBF:20	%LDE	8F:30 %	%LDBF:40	%LDBF:50			
Average Immediate Strain* (e)	0,37%	0,64%	0,87%	1	,09%	1,30%			

Splice type:

Tension/Inside splice 2G

Maximum Line Tenacity:

162,9 t/kg/m

This MLBD Certificate is issued based on DNV Verification Statement no.: N142Y9YK, N142URZD, N142VA23, N142VHTJ, N142VHTM, N142VRRE, N142VHTR

Name and address of manufacturing facility:

Completion date:

Wilhelmsen Ships Service

TIMM SLOVAKIA s.r.o., Nozdrkovce 3140/37, 911 04 Trenčín,

Slovakia

02.07.2024

Independent inspector:

Address of independent inspector:

Henrich Illáš

DNV, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design testing information

Name and address of test facility:

Completion date:

Wilhelmsen Ships Service

TIMM SLOVAKIA s.r.o., Nozdrkovce 3140/37, 911 04 Trenčín,

Slovakia

02.07.2024

Independent inspector:

Address of independent inspector:

Henrich Illáš

DNV, Rolníckej Školy 1519, 94525 Komárno, Slovak Republic

Base design sample and product documentation reviewed

Independent inspector:

Henrich Illáš

Date of review:

09.07.2024

Base design sample manufacturing report Material test report

DNV

Splicing instructions

Base design sample manufacturing ITP

Design specification

V V

Jacketed line internal inspection report - N/A

Base design sample test report

Manufacturer's discard and

inspection criteria

Procedures for testing and inspection of retired mooring lines

^{*}Performance indicators are tested on samples: 16mm for Acera Amundsen mooring line

^{**}Temperature indicator performed at yarn level